

AMENDMENTS TO THE CLAIMS

Following is a complete set of claims as amended with this Response. This complete set of claims includes amended claim 1 and new claims 12-20.

1. (Currently Amended) A lead configured for stimulating a nerve of a patient, the lead comprising:

a lead body;

at least one conductor extending through the lead body;

at least one electrode on the lead body and in electrical contact with the at least one conductor; and

one or more channels that allow for a flow of adhesive or an adhesive component to the a nerve site to establish electrical contact between the nerve and the at least one electrode; and

an adhesive member fixating the lead body to tissue of the patient, the adhesive member comprising the adhesive or adhesive component to the nerve.

2. (Original) The lead of claim 1, further comprising a plurality of electrodes in electrical contact with the at least one conductor.

3. (Original) The lead of claim 1, further comprising a radiation conduit capable of delivering radiation to the site.

4. (Original) The lead of claim 3 wherein the radiation comprises a member selected from the group consisting of UV radiation, visible radiation, IR radiation, electrical radiation and/or magnetic radiation.

5. (Original) The lead of claim 1, wherein the lead body defines the one or more channels.

6. (Original) The lead of claim 3, wherein the lead body houses the radiation conduit.
7. (Original) The lead of claim 1 and further comprising:
a sheath surrounding the lead body.
8. (Original) The assembly of claim 7, wherein the sheath is rotatable with respect to the lead body.
9. (Withdrawn) A method comprising:
positioning a distal end of a lead having one or more electrodes in a patient's body adjacent a nerve; and
delivering adhesive from the lead to secure the lead in place with the one or more electrodes in electrical contact with the nerve.
10. (Withdrawn) The method of claim 9, further comprising delivering radiation to the adhesive.
11. (Withdrawn) The method of claim 9, further comprising administering nerve stimulation therapy via the one or more electrodes.
12. (New) The lead of claim 1, wherein a distal end of the channel is adjacent to the at least one electrode, and wherein the lead body is secured to the tissue at a distal end of the lead body.
13. (New) The lead of claim 12, wherein the fixation member is disposed between the tissue and the at least one electrode.

14. (New) The lead of claim 1, wherein the one or more channels comprises a first channel and a second channel, the first channel allowing flow of a first chemical component of the adhesive or the adhesive component and the second channel allowing flow of a second chemical component of the adhesive or the adhesive component, and wherein the first chemical component and the second chemical component are delivered to the tissue at the nerve site.
15. (New) A lead configured for stimulating a nerve of a patient, the lead comprising:
a lead body having a distal end and a proximal end;
a conductor extending through the lead body;
an electrode on the lead body and in electrical contact with the conductor, the electrode coupled to the nerve of the patient;
an adhesive channel directing flow of an adhesive or an adhesive component to tissue of the patient; and
an adhesive member fixating the lead body to tissue of the patient, the adhesive member comprising the adhesive or the adhesive component.
16. (New) The lead of claim 15, wherein the adhesive channel terminates at a side opening disposed at a side of the lead body to deliver the adhesive or the adhesive component at an intermediate region between the proximal and distal end of the lead body, and wherein the adhesive member fixates the lead at the intermediate region between the proximal and distal end of the lead body.
17. (New) The lead of claim 16, further comprising a radiation conduit delivering radiation to a site of the adhesive member, the radiation conduit having a side opening adjacent to the opening of the adhesive channel.
18. (New) The lead of claim 15, wherein the adhesive member is disposed at the nerve of the patient to establish electrical contact between the nerve and the electrode.

19. (New) A lead system for securing an implantable lead in a patient, the system comprising:

a reservoir module storing an adhesive or an adhesive component;

a lead configured for stimulating a nerve of a patient, the lead comprising:

a lead body having a proximal end and a distal end;

a conductor extending through the lead body;

an electrode on the lead body and in electrical contact with the conductor,
the electrode coupled to the nerve of the patient;

an adhesive channel directing flow of an adhesive or an adhesive
component from the reservoir module to tissue of the patient; and

an adhesive member fixating the lead body to the tissue of the patient, the
adhesive member comprising the adhesive or the adhesive component.

20. (New) The lead system of claim 19, further comprising a generator module
delivering radiation to a site of the adhesive member.